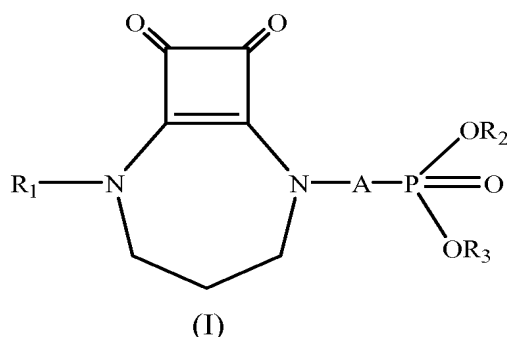


This listing of claims will replace all prior versions, and listings, of claims in the application.

***Listing of Claims:***

1. ***(previously presented)*** A compound of formula (I) or a pharmaceutically acceptable salt thereof:

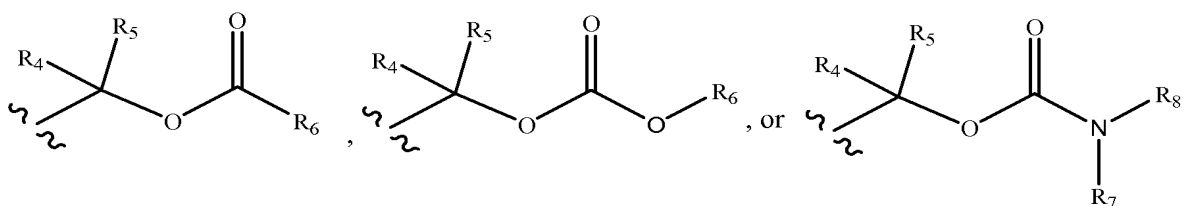


wherein:

R<sub>1</sub> is hydrogen, a C<sub>1</sub> to C<sub>6</sub> alkyl group, a C<sub>2</sub> to C<sub>7</sub> acyl group, a C<sub>1</sub> to C<sub>6</sub> alkanesulfonyl group, or a C<sub>6</sub> to C<sub>14</sub> aroyl group;

A is alkylene of 1 to 4 carbon atoms or alkenylene of 2 to 4 carbon atoms;

R<sub>2</sub> and R<sub>3</sub> are independently selected from hydrogen, or



with the proviso that at least one of R<sub>2</sub> and R<sub>3</sub> is not hydrogen;

R<sub>4</sub> and R<sub>5</sub> are independently selected from hydrogen, a C<sub>1</sub> to C<sub>4</sub> alkyl group, a C<sub>5</sub> to C<sub>7</sub> aryl group, a C<sub>6</sub> to C<sub>15</sub> alkylaryl group having 5 to 7 carbon atoms in the aryl ring, a C<sub>2</sub> to C<sub>7</sub> alkenyl group, or C<sub>2</sub> to C<sub>7</sub> alkynyl group, or R<sub>4</sub> and R<sub>5</sub> may together form a spiro C<sub>3</sub> to C<sub>8</sub> carbocyclic ring;

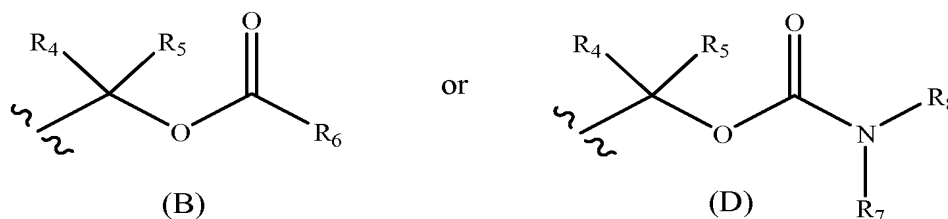
R<sub>6</sub> is a C<sub>1</sub> to C<sub>12</sub> linear or branched alkyl group, a C<sub>2</sub> to C<sub>7</sub> linear or branched alkenyl or alkynyl group, a C<sub>5</sub> to C<sub>13</sub> aryl group, a C<sub>6</sub> to C<sub>21</sub> alkylaryl group having 5 to 13 carbon atoms in the aryl moiety; a 5 to 13 membered heteroaryl group, a 6 to 21 membered alkylheteroaryl group having 5 to 13 members in the heteroaryl moiety, a

C<sub>4</sub> to C<sub>8</sub> cycloalkyl group, a C<sub>5</sub> to C<sub>16</sub> alkylcycloalkyl group having 4 to 8 carbon atoms in the cycloalkyl ring;

R<sub>7</sub> and R<sub>8</sub> are independently selected from hydrogen, a C<sub>1</sub> to C<sub>12</sub> linear or branched alkyl group, a C<sub>2</sub> to C<sub>7</sub> linear or branched alkenyl or alkynyl group, a C<sub>5</sub> to C<sub>13</sub> aryl group, a C<sub>6</sub> to C<sub>21</sub> alkylaryl group having 5 to 13 carbon atoms in the aryl moiety, a 5 to 13 membered heteroaryl group, a 6 to 21 membered alkylheteroaryl group having 5 to 13 members in the heteroaryl moiety, or R<sub>7</sub> and R<sub>8</sub> may together form a cycloalkyl or heterocycloalkyl group having in the ring 4 to 8 carbon atoms and optionally one to two atoms selected from nitrogen, oxygen or sulfur;

wherein any R<sub>1</sub> to R<sub>8</sub> group having an aryl, heteroaryl, cycloalkyl or heterocycloalkyl moiety may optionally be substituted on the aryl, heteroaryl, cycloalkyl or heterocycloalkyl moiety with 1 to about 5 substituents independently selected from a halogen atom, a cyano, nitro or hydroxyl group, a C<sub>1</sub>-C<sub>6</sub> alkyl group, or a C<sub>1</sub>-C<sub>6</sub> alkoxy group.

2. *(original)* The compound of claim 1 wherein R<sub>1</sub> is H or a C<sub>1</sub> to C<sub>4</sub> alkyl group.
3. *(original)* The compound of claim 2 wherein A is an alkylene group having the formula -  
-(CH<sub>2</sub>)<sub>n</sub>-, where n is 1 to 3.
4. *(original)* The compound of claim 3 wherein n is 2.
5. *(original)* The compound of claim 4 wherein R<sub>4</sub> and R<sub>5</sub> are independently selected from H or a C<sub>1</sub> to C<sub>4</sub> alkyl group, and R<sub>6</sub> is selected from a C<sub>3</sub> to C<sub>10</sub> linear or branched alkyl group, a C<sub>5</sub> to C<sub>7</sub> aryl group, a 5- to 7-membered heteroaryl group, or a cycloalkyl group having in the ring 5 to 7 carbon atoms.
6. *(original)* The compound of claim 5 wherein R<sub>2</sub> and R<sub>3</sub> are independently selected from H or the moiety:



7. **(original)** The compound of claim 6 wherein R<sub>2</sub> and R<sub>3</sub> are independently selected from H or the moiety (B).

9. **(currently amended)** The compound of claim 1 wherein at least one compound of formula (I) is selected from:

- a) 3-{2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl]ethyl}-3-oxido-7-oxo-7-phenyl-2,4,6-trioxa-3-phosphahept-1-yl benzoate;
- b) 3-{2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl]ethyl}-3-oxido-7-oxo-8-propyl-2,4,6-trioxa-3-phosphaundec-1-yl-2-propylpentanoate;
- c) 2,2-dimethyl-propionic acid {(2,2-dimethyl-propionyloxymethoxy)-[2-(8,9-dioxo-2,6-diaza-bicyclo[5.2.0]-non-1(7)-en-2-yl)-ethyl]-phosphinoyloxy} methyl ester;
- d) 7-cyclohexyl-3-{2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl]ethyl}-1,5-dimethyl-3-oxido-7-oxo-2,4,6-trioxa-3-phosphahept-1-yl cyclohexanecarboxylate;
- e) ~~7-cyclohexyl-3-{2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl]ethyl}-3-oxido-7-oxo-2,4,6-trioxa-3-phosphahept-1-yl cyclohexanecarboxylate;~~  
7-cyclohexyl-3-{2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl]ethyl}-3-oxido-7-oxo-2,4,6-trioxa-3-phosphahept-1-yl cyclohexanecarboxylate;

- f) [2-(8,9-Dioxo-2,6-diaza-bicyclo[5.2.0]non-1-(7)-en-2-yl)-ethyl]-phosphonic acid diisopropoxycarbonyl oxymethyl ester;
  - g) [2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl]ethyl]-phosphonic acid bis[1-(benzoyloxy)ethyl] ester;
  - h) benzoic acid [2-(8,9-dioxo-2,6-diaza-bicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]-hydroxy-phosphinoyloxymethyl ester; or
  - i) [2-(8,9-Dioxo-2,6-diaza-bicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]-phosphonic acid di-dimethylcarbamoyloxymethyl ester; or
- a pharmaceutically acceptable salt thereof.

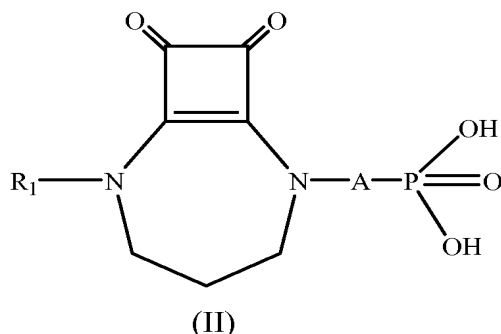
10. **(original)** The compound of claim 1 wherein the compound of formula (I) is selected from

- a) 3-{2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1 (7)-en-2-yl]ethyl}-3-oxido-7-oxo-7-phenyl-2,4,6-trioxa-3-phosphahept-1-yl benzoate;
  - b) [2-[8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1 (7)-en-2-yl]ethyl]-phosphonic acid bis[1-(benzoyloxy)ethyl]ester; or
  - c) benzoic acid [2-(8,9-dioxo-2,6-diaza-bicyclo[5.2.0]non-1 (7)-en-2-yl)-ethyl]-hydroxy-phosphinoyloxymethyl ester; or
- a pharmaceutically acceptable salt thereof.

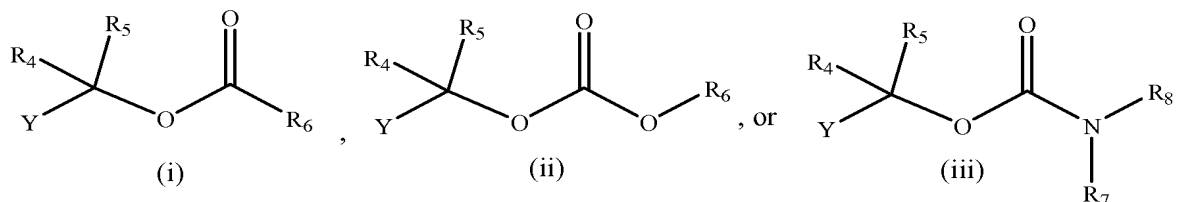
Claims 11 to 28 **(cancelled)**

29. **(previously presented)** A product made by the process comprising:

- a) reacting a compound of formula (II)



and at least one ester selected from



wherein

R<sub>1</sub> is hydrogen, a C<sub>1</sub> to C<sub>6</sub> alkyl group, a C<sub>2</sub> to C<sub>7</sub> acyl group, a C<sub>1</sub> to C<sub>6</sub> alkanesulfonyl group, or a C<sub>6</sub> to C<sub>14</sub> aroyl group;

A is alkylene of 1 to 4 carbon atoms or alkenylene of 2 to 4 carbon atoms;

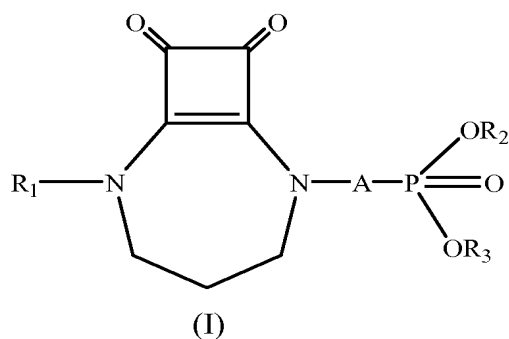
Y is a leaving group;

R<sub>4</sub> and R<sub>5</sub> are independently selected from hydrogen, a C<sub>1</sub> to C<sub>4</sub> alkyl group, a C<sub>5</sub> to C<sub>7</sub> aryl group, a C<sub>6</sub> to C<sub>15</sub> alkylaryl group having 5 to 7 carbon atoms in the aryl ring, a C<sub>2</sub> to C<sub>7</sub> alkenyl group, or C<sub>2</sub> to C<sub>7</sub> alkynyl group, or R<sub>4</sub> and R<sub>5</sub> may together form a spiro C<sub>3</sub> to C<sub>8</sub> carbocyclic ring;

R<sub>6</sub> is a C<sub>1</sub> to C<sub>12</sub> linear or branched alkyl group, a C<sub>2</sub> to C<sub>7</sub> linear or branched alkenyl or alkynyl group, a C<sub>5</sub> to C<sub>13</sub> aryl group, a C<sub>6</sub> to C<sub>21</sub> alkylaryl group having 5 to 13 carbon atoms in the aryl moiety; a 5 to 13-membered heteroaryl group, a 6 to 21 membered alkylheteroaryl group having 5 to 13 members in the heteroaryl moiety, a C<sub>4</sub> to C<sub>8</sub> cycloalkyl group, a C<sub>5</sub> to C<sub>16</sub> alkylcycloalkyl group having 4 to 8 carbon atoms in the cycloalkyl ring; and

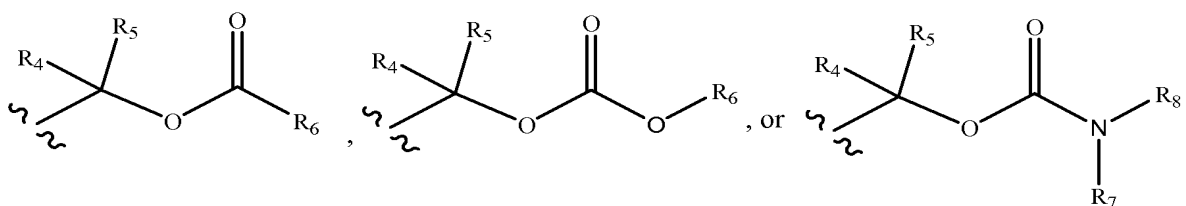
R<sub>7</sub> and R<sub>8</sub> are independently selected from hydrogen, a C<sub>1</sub> to C<sub>12</sub> linear or branched alkyl group, a C<sub>2</sub> to C<sub>7</sub> linear or branched alkenyl or alkynyl group, a C<sub>5</sub> to C<sub>13</sub> aryl group, a C<sub>6</sub> to C<sub>21</sub> alkylaryl group having 5 to 13 carbon atoms in the aryl moiety; a 5 to 13 membered heteroaryl group, a 6 to 21 membered alkylheteroaryl group having 5 to 13 members in the heteroaryl moiety, or R<sub>7</sub> and R<sub>8</sub> may together form a cycloalkyl or heterocycloalkyl group having in the ring 4 to 8 carbon atoms and optionally one to two atoms selected from nitrogen, oxygen or sulfur; and

- b) forming a product of formula (I) or a pharmaceutically acceptable salt thereof



wherein:

$R_2$  and  $R_3$  are independently selected from hydrogen, or



with the proviso that at least one of  $R_2$  and  $R_3$  is not hydrogen;

$R_1$ , A,  $R_4$ ,  $R_5$ , and  $R_6$  in formula (I) are defined as in formula (II); wherein any  $R_1$  to  $R_8$  group in formula (I) or (II) having an aryl, heteroaryl, cycloalkyl or heterocycloalkyl moiety may optionally be substituted with 1 to about 5 substituents independently selected from a halogen atom, a cyano, nitro or hydroxyl group, a  $C_1$ - $C_6$  alkyl group, or a  $C_1$ - $C_6$  alkoxy group.